

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-130385

(43)Date of publication of application : 02.06.1988

(51)Int.Cl.

B41M 5/26

(21)Application number : 61-277644

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(22)Date of filing : 20.11.1986

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(54) TRANSFER-TYPE THERMAL RECORDING MEDIUM

(57)Abstract:

PURPOSE: To enable clear printing even on transfer recording paper having a poor surface smoothness, by providing a second layer containing a coloring agent and so conditioned as not to be melted to become a low-viscosity liquid on a first layer not containing a coloring agent and so conditioned as to be melted to become a low-viscosity liquid when heated, and incorporating an ionomer resin in the second layer.

CONSTITUTION: It is preferable that a first layer of a thermally transferable ink layer comprises a waxy substance which shows a peak value of not higher than 120° C upon differential thermal analysis and which is easily melted to become a low-viscosity liquid when being heated. A second layer comprises an ionomer resin which has no definite melting point, and becomes tacky to a transfer recording material when supplied with thermal energy at the time of recording but is not melted to be a low-viscosity liquid. The ionomer resin has a structure wherein carboxylic acid groups are present as side chains on a polyethylene molecular chain, and part of the carboxylic acid groups are crosslinked between the molecular chains by metallic cations. The ionomer resin has such a property that the bond strength therein is lowered upon heating and is enhanced upon cooling. Therefore, sharp transfer onto the transfer recording paper can be achieved.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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